AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A routing system operable to link a mobile platform to the Internet, comprising:

a ground based communications link manager communicatively linkable to the a first mobile platform;

at least one ground based prefix server in operable communication with the communications link manager;

an initial destination address assignable to the <u>first</u> mobile platform; and

<u>a local prefix number pool operable to store a limited quantity of prefix</u>

<u>numbers each received from any of a plurality of mobile platforms upon completion of a</u>

trip of any of the plurality of mobile platforms; and

a prefix server program operable to <u>select one of the limited quantity of</u>

<u>prefix numbers from the local prefix number pool and communicate the initial destination</u>

address of the <u>first</u> mobile platform to the communications link manager and to the Internet.

2. (currently amended) The system of Claim 1, comprising a prefix number selectable from a plurality of prefix numbers, wherein the initial destination address of the first mobile platform is assignable from the <u>selected</u> prefix number.

- 3. (original) The system of Claim 1, wherein the prefix server and the communications link manager are in operable communication with the Internet using a global border gateway protocol.
- 4. (original) The system of Claim 1, wherein the prefix server and the ground based communications manager are in operable communication with the Internet using at least one of a plurality of Internet service providers.
- 5. (currently amended) The system of Claim 1, wherein a new destination address is communicable to the Internet using the prefix server during a travel segment of the first mobile platform.
- 6. (original) The system of Claim 5, wherein the new destination address is operatively communicable to the Internet using a second communications link manager.

7. (currently amended) A method for operating a mobile platform communications system prefix server, comprising:

storing in a local prefix number pool a plurality of prefix numbers received from any of a plurality of mobile platforms upon completion of a trip of any of the plurality of mobile platforms;

selecting a prefix number from a the plurality of prefix numbers;

linking a mobile autonomous system number to the prefix number operable by the prefix server to aggregate a plurality of routes within the local prefix number pool;

linking the prefix number with the mobile autonomous system number to a mobile platform identification number;

linking the prefix number with the mobile autonomous system number to a mobile platform destination address; and

signaling to at least one Internet service provider the location of the mobile platform destination address.

8. (currently amended) The method of Claim 7, <u>further</u> comprising:

adding data transfer routes between the mobile platform destination address and the <u>at least one</u> Internet service provider;

confirming if a two-way communications path is open between a mobile platform and a ground communications link manager; and

withdrawing the data transfer routes when the two-way communications path is broken.

- 9. (currently amended) The method of Claim 7, <u>further</u> comprising positioning the prefix server as a ground based unit.
- 10. (currently amended) The method of Claim 7, <u>further</u> comprising injecting a plurality of network layer reachability information into an internal border gateway protocol network.
- 11. (currently amended) The method of Claim 7, <u>further</u> comprising notifying a plurality of route servers of the prefix number.

12. (currently amended) A method for maintaining communications contact between a mobile platform and the Internet during a travel segment of the mobile platform using at least one ground based communications link manager, the method comprising:

creating at least one ground based prefix server operable to communicatively link the mobile platform and the <u>at least one</u> communications link manager;

storing in an initially empty local prefix number pool a plurality of prefix numbers after use by a plurality of mobile platforms;

programming the prefix server to operatively select a <u>one of the plurality of</u>
prefix numbers for the mobile platform from a <u>plurality of prefix numbers</u> the local prefix <u>number pool</u>;

assigning the prefix number to the mobile platform for the travel segment; and

signaling via the prefix server a destination address of the mobile platform using the prefix number communicated via the <u>at least one</u> communications link manager.

13. (currently amended) The method of Claim 12, <u>further</u> comprising:

selecting a new prefix number upon initiation of a new travel segment of the mobile platform;

creating a new destination address using the prefix server; and signaling the new destination address using the prefix server during the new travel segment of the mobile platform to operatively maintain communication between the mobile platform and the Internet.

- 14. (currently amended) The method of Claim 12, <u>further</u> comprising:
 establishing a two-way communication path between the mobile
 platform and the <u>at least one</u> communications link manager; and
 adding a plurality of route paths using the prefix server after the
 two-way communication is established.
- 15. (currently amended) The method of Claim 14, <u>further</u> comprising withdrawing the route paths when the two-way communication ends.
- 16. (currently amended) The method of Claim 12, <u>further</u> comprising mapping a unique aircraft identification number to the assigned prefix number using the prefix server.
- 17. (currently amended) The method of Claim 12, <u>further</u> comprising injecting a plurality of network layer reachability information using the prefix server.

- 18. (currently amended) The method of Claim 12, <u>further</u> comprising notifying a plurality of Internet route servers of the selected prefix number using the prefix server.
- 19. (currently amended) The method of Claim 12, <u>further</u> comprising initially allocating the plurality of prefix numbers to a global pool of prefix numbers.

20. (currently amended) The method of Claim 19, comprising: A method for maintaining communications contact between a mobile platform and the Internet during a travel segment of the mobile platform using at least one ground based communications link manager, the method comprising:

creating at least one ground based prefix server operable to communicatively link the mobile platform and the at least one communications link manager;

programming the prefix server to operatively select a prefix number for the mobile platform from a plurality of prefix numbers;

assigning the prefix number to the mobile platform for the travel segment;

signaling via the prefix server a destination address of the mobile platform using the prefix number communicated via the at least one communications link manager;

initially allocating the plurality of prefix numbers to a global pool of prefix numbers;

creating a local pool operable to contain a first portion of the plurality of prefix numbers; and

assigning the local pool to an autonomous system in operable communication with the Internet.

21. (currently amended) The method of Claim 20, <u>further</u> comprising programming the prefix server to initially select the prefix number from the local pool.

- 22. (currently amended) The method of Claim 21, <u>further</u> comprising programming the prefix server to operatively select the prefix number from the global pool if the local pool is empty.
- 23. (currently amended) The method of Claim 20, <u>further</u> comprising programming the prefix server to add the prefix number to the local pool upon completion of the travel segment.
- 24. (currently amended) The method of Claim 23, <u>further</u> comprising: programming the prefix server to add the prefix number to the global pool only if the local pool is in a full condition; and

withdrawing a plurality of route paths operably forwarded by the prefix server only if the prefix number is added to the global pool.

25. (currently amended) A method for maintaining communications contact between a mobile platform and the Internet during a travel segment of the mobile platform using at least one ground based communications link manager, the method comprising:

creating at least one ground based prefix server operable to communicatively link the mobile platform and the <u>at least one</u> communications link manager;

programming the prefix server to operatively select a prefix number for the mobile platform from a plurality of prefix numbers for the travel segment of the mobile platform;

submitting a mobile platform request for the prefix number at the initiation of the travel segment;

assigning the prefix number to a mobile platform identification number; and

operating the prefix server to signal a destination address of the mobile platform using the prefix number communicated via the <u>at least one</u> communications link manager.

26. (currently amended) The method of Claim 25, <u>further</u> comprising: establishing a two-way communication path between the mobile platform and the <u>at least one</u> communications link manager; and

adding a first plurality of Internet route paths using the prefix server after the two-way communication is established.

- 27. (currently amended) The method of Claim 26, <u>further</u> comprising withdrawing the first plurality of route paths when the two-way communication ends.
- 28. (currently amended) The method of Claim 27, <u>further</u> comprising:
 selecting a new prefix number during the travel segment of the
 mobile platform when the two-way communication ends; and
 creating a new destination address from the new prefix number using the
 prefix server.
- 29. (currently amended) The method of Claim 28, <u>further</u> comprising: establishing a new two-way communication path between the mobile platform and the <u>at least one</u> communications link manager;

signaling the new destination address using the prefix server during a new travel segment of the mobile platform to operatively maintain communication between the mobile platform and the Internet; and

adding a second plurality of route paths using the prefix server.

30. (currently amended) The method of Claim 25, <u>further</u> comprising notifying a plurality of Internet route servers of the selected prefix number using the prefix server.

- 31. (currently amended) The method of Claim 25, <u>further</u> comprising programming the prefix server to operatively notify at least one other prefix server of the plurality of prefix servers that a mapping of a mobile platform identification number to a route is invalid at an end of the travel segment.
- 32. (currently amended) The method of Claim 25, <u>further</u> comprising linking a mobile autonomous system number to the prefix number.
- 33. (currently amended) The method of Claim 32, <u>further</u> comprising modifying a network layer reachability information message using the prefix server.
- 34. (currently amended) The method of Claim 32, <u>further</u> comprising aggregating a plurality of route paths using the prefix server.
- 35. (currently amended) The method of Claim 32, <u>further</u> comprising inserting a single network layer reachability information message for a plurality of route paths.